Chenyang Li

List of Publications by Year
in descending order

20 papers	465 citations	759233 12 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	363 citing authors

#	Article	IF	Citations
1	Second-Order Active-Space Embedding Theory. Journal of Chemical Theory and Computation, 2022, 18, 1527-1541.	5.3	6
2	Theoretical Calculation of Core-Excited States along Dissociative Pathways beyond Second-Order Perturbation Theory. Journal of Chemical Theory and Computation, 2022, 18, 219-233.	5.3	9
3	Spin-free formulation of the multireference driven similarity renormalization group: A benchmark study of first-row diatomic molecules and spin-crossover energetics. Journal of Chemical Physics, 2021, 155, 114111.	3.0	14
4	Analytic Energy Gradients for the Driven Similarity Renormalization Group Multireference Second-Order Perturbation Theory. Journal of Chemical Theory and Computation, 2021, 17, 7666-7681.	5.3	7
5	Tuning the Quantum Dot (QD)/Mediator Interface for Optimal Efficiency of QD-Sensitized Near-Infrared-to-Visible Photon Upconversion Systems. ACS Applied Materials & Interfaces, 2020, 12, 36558-36567.	8.0	25
6	Connected three-body terms in single-reference unitary many-body theories: Iterative and perturbative approximations. Journal of Chemical Physics, 2020, 152, 234116.	3.0	5
7	Analytic gradients for the single-reference driven similarity renormalization group second-order perturbation theory. Journal of Chemical Physics, 2019, 151, 044118.	3.0	7
8	Improving the Efficiency of the Multireference Driven Similarity Renormalization Group via Sequential Transformation, Density Fitting, and the Noninteracting Virtual Orbital Approximation. Journal of Chemical Theory and Computation, 2019, 15, 4399-4414.	5.3	18
9	Multireference Theories of Electron Correlation Based on the Driven Similarity Renormalization Group. Annual Review of Physical Chemistry, 2019, 70, 245-273.	10.8	24
10	Dynamically weighted multireference perturbation theory: Combining the advantages of multi-state and state-averaged methods. Journal of Chemical Physics, 2019, 150, 144107.	3.0	16
11	Driven similarity renormalization group for excited states: A state-averaged perturbation theory. Journal of Chemical Physics, 2018, 148, 124106.	3.0	30
12	A Combined Selected Configuration Interaction and Many-Body Treatment of Static and Dynamical Correlation in Oligoacenes. Journal of Chemical Theory and Computation, 2018, 14, 6295-6305.	5.3	46
13	Conjugated Oligomers with Stable Radical Substituents: Synthesis, Single Crystal Structures, Electronic Structure, and Excited State Dynamics. Chemistry of Materials, 2018, 30, 7840-7851.	6.7	16
14	Driven similarity renormalization group: Third-order multireference perturbation theory. Journal of Chemical Physics, 2017, 146, 124132.	3.0	40
15	A low-cost approach to electronic excitation energies based on the driven similarity renormalization group. Journal of Chemical Physics, 2017, 147, 074107.	3.0	12
16	Towards numerically robust multireference theories: The driven similarity renormalization group truncated to one- and two-body operators. Journal of Chemical Physics, 2016, 144, 164114.	3.0	35
17	An integral-factorized implementation of the driven similarity renormalization group second-order multireference perturbation theory. Journal of Chemical Physics, 2016, 144, 204111.	3.0	42
18	Intricate Internal Rotation Surface and Fundamental Infrared Transitions of the n-Propyl Radical. Journal of Physical Chemistry B, 2015, 119, 728-735.	2.6	10

#	Article	IF	Citations
19	Multireference Driven Similarity Renormalization Group: A Second-Order Perturbative Analysis. Journal of Chemical Theory and Computation, 2015, 11, 2097-2108.	5.3	76
20	The Remarkable [ReH₉]^{2â€“} Dianion: Molecular Structure and Vibrational Frequencies. Journal of Physical Chemistry B, 2014, 118, 6482-6490.	2.6	6